

Serial No.: 09/752,623

Attorney Docket No.: 00P09130 US

IN THE CLAIMS:

This listing of the claims will replace all prior versions and listings of the claims in the application:

1. (Currently Amended) A telecommunications device, comprising:
a receiver adapted to receive signals at a plurality of channels within one or more frequency bands; and
a programmable filter adapted to bandpass filter said signals at individual ones of said frequency bands channels, said receiver being a frequency hopping receiver and said programmable filter receiving a frequency select signal, said programmable filter adapted to select a channel for filtering responsive to said frequency select signal, said bandpass filter having a bandwidth sized to correspond to a channel bandwidth;
_____ wherein said frequency bands are divided into a plurality of subsets, each subset having a plurality of channels, and said frequency select signal indicates which channel in a particular subset is selected; and
_____ wherein a total number of frequencies are chosen to allow for avoiding interfering frequencies.
2. (Canceled)
3. (Currently Amended) A telecommunications device, comprising:
a receiver adapted to select one of a plurality of frequency channels; and
a bandpass filter having a variable band corresponding to said one of said plurality of frequency channels, said receiver being a frequency hopping receiver and said bandpass filter receiving a frequency select signal, said bandpass filter adapted to select a channel for filtering responsive to said frequency select signal, said bandpass filter having a bandwidth sized to correspond to a channel bandwidth;
_____ wherein said frequency channels are selected from a plurality of frequency

Serial No.: 09/752,623

Attorney Docket No.: 00P09130 US

bands divided into a plurality of subsets, each subset having a plurality of channels, and said frequency select signal indicates which channel in a particular subset is selected wherein a total number of frequencies are chosen to allow for avoiding interfering frequencies.

4. (Currently Amended) A telecommunications system, comprising:
a base station; and
a plurality of handsets;

wherein each of said base station and handsets has a radio-frequency receiver adapted to receive signals at a plurality of channels within frequency bands and a programmable filter adapted to bandpass filter said signals at individual ones of said frequency bands channels, said filter having a bandwidth sized to correspond to a channel bandwidth;

wherein said frequency bands are divided into a plurality of subsets, each subset having a plurality of channels, and said frequency select signal indicates which channel in a particular subset is selected wherein a total number of frequencies are chosen to allow for avoiding interfering frequencies.

5. (Original) A telecommunications system in accordance with claim 4, said receiver being a frequency hopping receiver and said programmable filter receiving a frequency select signal.

6. (Currently Amended) A telecommunications method, comprising:
receiving a channel of a plurality of channels within a frequency band; and
band-pass filtering said channel at an input to a radio-frequency receiver, said bandpass filtering comprising filtering with a bandwidth sized to correspond to a channel bandwidth;

wherein said frequency channels are selected from a plurality of frequency

Serial No.: 09/752,623

Attorney Docket No.: 00P09130 US

bands divided into a plurality of subsets, each subset having a plurality of channels, and said frequency select signal indicates which channel in a particular subset is selected wherein a total number of frequencies are chosen to allow for avoiding interfering frequencies.

7. (Original) A telecommunications method in accordance with claim 6, further comprising hopping from one channel to another channel, detecting said hopping, and band-pass filtering said another channel.

8. (Currently Amended) A telecommunications method, comprising:
providing a receiver adapted to select one of a plurality of frequency channels within a frequency band; and

providing a bandpass filter having a variable band corresponding to said one of said plurality of frequency channels, said bandpass filter having a bandwidth sized to correspond to a channel bandwidth;

wherein said frequency channels are selected from a plurality of frequency bands divided into a plurality of subsets, each subset having a plurality of channels, and said frequency select signal indicates which channel in a particular subset is selected wherein a total number of frequencies are chosen to allow for avoiding interfering frequencies.

9. (Original) A telecommunications method in accordance with claim 8, said providing a receiver adapted to select one of a plurality of frequency channels comprising providing a frequency hopping receiver.

10. (Currently Amended) A telecommunications method comprising:
a base station establishing a frequency hopping scheme;

Serial No.: 09/752,623

Attorney Docket No.: 00P09130 US

said base station providing information indicative of said scheme to a band pass filter; and

said band pass filter filtering channels at frequencies of said frequency hopping scheme responsive to said information, wherein a bandwidth of said band pass filter is sized to correspond to a channel bandwidth;

wherein said frequency channels are selected from a plurality of frequency bands divided into a plurality of subsets, each subset having a plurality of channels, and said frequency select signal indicates which channel in a particular subset is selected wherein a total number of frequencies are chosen to allow for avoiding interfering frequencies.

11. (Original) A telecommunications method in accordance with claim 10, further comprising:

said base station providing information indicative of said scheme to at least one portable unit.

12. (Original) A telecommunications method in accordance with claim 11, further comprising:

said portable unit providing information indicative of said scheme to a band pass filter.

13. (Original) A telecommunications method in accordance with claim 12, further comprising:

said band pass filter filtering channels at frequencies of said frequency hopping scheme responsive to said information.

14. (Currently Amended) A telecommunications system, comprising:
a base station adapted to establish a frequency hopping scheme and provide

Serial No.: 09/752,623

Attorney Docket No.: 00P09130 US

information indicative of said scheme to a band pass filter;

wherein said band pass filter is adapted to filter channels at frequencies of said frequency hopping scheme responsive to said information, wherein a bandwidth of said band pass filter is sized to correspond to a channel bandwidth; (1-54)

wherein said frequency channels are selected from a plurality of frequency bands divided into a plurality of subsets, each subset having a plurality of channels, and said frequency select signal indicates which channel in a particular subset is selected wherein a total number of frequencies are chosen to allow for avoiding interfering frequencies.

15. (Original) A telecommunications system in accordance with claim 14, said base station adapted to provide information indicative of said scheme to at least one portable unit.

16. (Original) A telecommunications system in accordance with claim 15, said portable unit adapted to provide information indicative of said scheme to a band pass filter.

17. (Original) A telecommunications system in accordance with claim 16, said band pass filter adapted to filter channels at frequencies of said frequency hopping scheme responsive to said information.